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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 800109WO	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/FI 2002/000276	International filing date (day/month/year) 28-03-2002	Priority date (day/month/year) ---
International Patent Classification (IPC) or national classification and IPC G06F 17/30		
Applicant Nokia Corporation et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 5 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 16-10-2003	Date of completion of this report 15-06-2004
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2002/000276

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 26 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 27 - 31 _____ received by this Authority on 05 - 04 - 2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 11 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2002/000276

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-24</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-24</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-24</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Cited documents

D1: WO 0063801 A1

D2: US 2001037407 A1

Statement

The cited documents represent the general state of the art. The invention defined in claims 1-24 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method and system for providing personalized services to mobile users. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-24 is novel and is considered to involve an inventive step. The invention is industrially applicable.

Claims

1. A system for providing personalized services for mobile users, the system **comprising**

- a plurality of mobile terminals, each mobile terminal being provided with means for acquiring personal content and adapted to be in wireless communication with a telecommunications system,

- storage means in the mobile terminal, the storage means being adapted to store at least a first part of the personal content acquired,

- at least one remote data repository connected to the telecommunications system for storing at least a second part of the personal content acquired by the plurality of mobile terminals, whereby at least one of the repositories is assigned for the use of each mobile terminal,

- means adapted to transfer a selected part of the personal content between the storage means and the at least one remote data repository through said telecommunications system, the means including predetermined criteria the fulfillment of which initiates said transfer,

- means for extracting data from said at least a first part of the personal content,

- association means for associating said extracted data with said at least a second part of the personal content, and

- service provision means responsive to said association means, the service provision means being adapted to generate and/or provide a personalized service using said extracted data associated with said at least a second part of the personal content.

2. A system according to claim 1, the system further **comprising**

- selection means for selecting data to be retrieved from an external data storage, the selection being made at least partially on the basis of said extracted data,

- means for receiving said selected data, and

- association means adapted to associate said received data with the personal content stored in the data repository,

wherein the service provision means are adapted to utilize said received data for generating and/or providing said personal service.

3. A system according to claim 1, the system further **comprising**

- communication means adapted to retrieve at least one stored object and/or item of data extracted from the remote data repository and

- a server including application software adapted to perform an action as a result of which information is generated, the action to utilize the retrieved object and/or said data extracted.

4. A system according to claim 1, the system further **comprising** means for storing said extracted information in said remote data repository.

5. A system according to any of claims 1-4, the system further **comprising** means for generating charging information on the basis of the action performed.

6. A system according to claim 3, the system further **comprising**

- means to subscribe to a service by sending a request to a server,

- means to process said request on said server, and

- means responsive to said processing adapted to allow access of the application software to an object and/or stored information in the remote data repository.

7. A system according to claim 3, the system further **comprising**

- means to subscribe to a service by sending a request to a server,

- means to process said request, and

- means responsive to said processing adapted to send an object and/or extracted information in the remote data repository to the server in order to enable provision of the service requested.

8. A system according to claim 6 or 7, **wherein** the service requested is identified in the request.

9. A system according to claim 6 or 7, **wherein** an object and/or extracted information is identified in the request, the object and/or extracted information defining the action to be performed by the server.

10. A system according to claim 2, **wherein**

- said service includes a personal magazine in a paper and/or digital format and said received data comprising at least one item of the following data: i) calendar information, ii) image/video information, or iii) location information of the user and

- said selected data received from the external data storage includes information to be laid out in a personal magazine:

11. A system according to claim 10, **wherein** the selection means are adapted to use at least date information extracted from said personal content in order to select objects and/or extracted data from the time interval to be laid out in the personal magazine.

12. A system according to claim 4 or 5, **wherein** said means for extracting data from said personal content include at least means to perform i) optical character/text recognition or ii) pattern recognition.

13. A method for providing personalized services for mobile users, the method **comprising** the steps of:

- acquiring personal content in a mobile terminal,

- storing at least a first part of said personal content in the mobile terminal,

- transferring through a telecommunications system selected at least a second part of the personal content between the mobile terminal and at least one remote data repository, the transfer being initiated when predetermined criteria are fulfilled,

- storing the transferred personal content in the at least one remote data repository,

- assigning at least one of said remote data repositories for the use of the mobile terminal, and providing the at least one remote data repository with means for accessing the personal content stored in the mobile terminal,

- extracting data from said at least a first part of the personal content,

- associating said extracted data with said at least a second part of the personal content,

- in response to said associating step, generating a personalized service using said extracted data associated with said at least a second part of the personal content, and

- providing the personalized service to the user.

14. A method according to claim 13, the method further **comprising** the steps of:

- selecting data to be retrieved from an external data storage, the selection to be made at least partially on the basis of said extracted data,

- receiving said selected data,

- associating said received data with the personal content stored in
5 the data repository, and

- providing a service, the service to utilize said received data.

15. A method according to claim 13, the method further **comprising** the steps of:

- retrieving at least one stored object and/or item of data extracted
10 from the remote data repository and

- performing an action as a result of which information is generated, the action to utilize the retrieved object and/or said data extracted.

16. A method according to claim 13, the method further **comprising** the step of storing said extracted information in said remote data
15 repository.

17. A method according to claim 13, the method further **comprising** the step of generating charging information on the basis of the action performed.

18. A method according to claim 15, the method further **comprising** the steps of:
20

- subscribing to a service by sending a request to a server,

- processing said request, and

- in response to said processing, allowing access of the application software to an object and/or stored information in the remote data repository.

25 19. A method according to claim 15, the method further **comprising** the steps of:

- subscribing to a service by sending a request to a server,

- processing said request, and

- in response to said processing, sending an object and/or
30 extracted information to the server to provide the service requested.

20. A method according to claim 18 or 19, **wherein** the service requested is identified in the request.

21. A method according to claim 18 or 19, **wherein** an object and/or extracted information is identified in the request, the object and/or extracted information defining the action to be performed by the server.

22. A method according to claim 14, **wherein**

5 - said service includes a personal magazine in paper and/or digital format, said received data to comprise at least one item of the following data: i) calendar information, ii) image/video information, or iii) location information of the user and

10 - said selected data retrieved from an external data storage includes information to be laid out in the personal magazine.

23. A method according to claim 22, **wherein** in the selection step at least date information extracted from said personal content is used in selecting objects and/or extracted data from the time interval to be laid out in the personal magazine.

15 24. A method according to claim 16 or 17, **wherein** said extracting of data from said personal content includes at least performing i) optical character/text recognition or ii) pattern recognition.